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OM protein - protein search, using sw model

Run on: June 25, 2003, 14:55:36 ; Search time 16.686 Seconds  
(Without alignments)  
680.911 Million cell updates/sec

Title: US-09-622-613b-8

Perfect score: 582  
Sequence: 1 MODMLTFQKKHLNTRDVC.....TECVTCENQAPVHVGVC 105

Scoring table: BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database :

Published\_Applications\_AA:\*  
1: /cgn2\_6/ptodata/1/pubppa/US08\_NEW\_PUB.pep:\*  
2: /cgn2\_6/ptodata/1/pubppa/PCT\_NEW\_PUB.pep:\*  
3: /cgn2\_6/ptodata/1/pubppa/US06\_NEW\_PUB.pep:\*  
4: /cgn2\_6/ptodata/1/pubppa/US07\_NEW\_PUB.pep:\*  
5: /cgn2\_6/ptodata/1/pubppa/US07\_PUBCOMB.pep:\*  
6: /cgn2\_6/ptodata/1/pubppa/PCTUS\_PUBCOMB.pep:\*  
7: /cgn2\_6/ptodata/1/pubppa/US08\_PUBCOMB.pep:\*  
8: /cgn2\_6/ptodata/1/pubppa/US09\_NEW\_PUB.pep:\*  
9: /cgn2\_6/ptodata/1/pubppa/US09\_PUBCOMB.pep:\*  
10: /cgn2\_6/ptodata/1/pubppa/US09\_PUBCOMB.pep:\*  
11: /cgn2\_6/ptodata/1/pubppa/US10\_NEW\_PUB.pep:\*  
12: /cgn2\_6/ptodata/1/pubppa/US10\_PUBCOMB.pep:\*  
13: /cgn2\_6/ptodata/1/pubppa/US60\_NEW\_PUB.pep:\*  
14: /cgn2\_6/ptodata/1/pubppa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	582	100.0	105	US-09-948-391A-8	Sequence 8, Appl1
2	582	100.0	111	US-09-948-391A-9	Sequence 9, Appl1
3	570	97.9	104	US-09-948-391A-4	Sequence 4, Appl1
4	565	97.1	105	US-09-948-391A-6	Sequence 6, Appl1
5	560	96.2	105	US-09-948-391A-13	Sequence 13, Appl1
6	555	95.4	127	US-09-948-391A-28	Sequence 28, Appl1
7	551	94.7	104	US-09-948-391A-11	Sequence 11, Appl1
8	543	93.3	105	US-09-948-391A-2	Sequence 2, Appl1
9	533	91.6	104	US-10-153-882-2	Sequence 2, Appl1
10	527	73.4	83	US-09-986-119-1	Sequence 1, Appl1
11	427	46.8	111	US-09-948-391A-21	Sequence 3, Appl1
12	272.5	46.8	117	US-09-948-391A-22	Sequence 22, Appl1
13	266.5	45.8	110	US-09-948-391A-15	Sequence 15, Appl1
14	265.5	45.6	111	US-09-948-391A-26	Sequence 26, Appl1
15	265.5	44.9	111	US-09-948-391A-17	Sequence 17, Appl1
16	261.5	44.9	110	US-09-948-391A-19	Sequence 19, Appl1
17	261.5	44.9	110	US-09-948-391A-24	Sequence 24, Appl1
18	261.5	44.9	110	US-09-948-391A-24	Sequence 24, Appl1
19	149.5	25.7	169	US-10-016-447-2	Sequence 2, Appl1

20	117.5	20.2	124	12	US-10-016-447-5	Sequence 5, Appl1
21	105	18.0	124	9	US-09-981-286A-8	Sequence 8, Appl1
22	103	17.7	147	10	US-09-286-240-6	Sequence 6, Appl1
23	103	17.7	147	10	US-09-863-777-2	Sequence 2, Appl1
24	103	17.7	147	10	US-09-731-872-254	Sequence 254, Appl1
25	87.5	15.0	131	12	US-10-016-447-6	Sequence 6, Appl1
26	81.5	14.0	156	9	US-09-796-753-102	Sequence 102, Appl1
27	81.5	14.0	156	9	US-09-796-753-118	Sequence 118, Appl1
28	81.5	14.0	156	9	US-10-245-103-60	Sequence 60, Appl1
29	81.5	14.0	156	9	US-10-245-107-60	Sequence 60, Appl1
30	81.5	14.0	156	9	US-10-245-143-60	Sequence 60, Appl1
31	81.5	14.0	156	9	US-10-245-771-60	Sequence 60, Appl1
32	81.5	14.0	156	9	US-10-245-851-60	Sequence 60, Appl1
33	81.5	14.0	156	9	US-10-245-883-60	Sequence 60, Appl1
34	81.5	14.0	156	9	US-10-237-535-60	Sequence 60, Appl1
35	81.5	14.0	156	9	US-10-238-183-60	Sequence 60, Appl1
36	81.5	14.0	156	9	US-10-238-283-60	Sequence 60, Appl1
37	81.5	14.0	156	9	US-10-238-370-60	Sequence 60, Appl1
38	81.5	14.0	156	9	US-10-245-055-60	Sequence 60, Appl1
39	81.5	14.0	156	9	US-10-245-147-60	Sequence 60, Appl1
40	81.5	14.0	156	9	US-10-245-730-60	Sequence 60, Appl1
41	81.5	14.0	156	9	US-10-245-739-60	Sequence 60, Appl1
42	81.5	14.0	156	9	US-10-246-210-60	Sequence 60, Appl1
43	81.5	14.0	156	9	US-10-239-196-60	Sequence 60, Appl1
44	81.5	14.0	156	9	US-10-243-024-60	Sequence 60, Appl1
45	81.5	14.0	156	9	US-10-243-409-60	Sequence 60, Appl1

#### ALIGNMENTS

RESULT 1  
US-09-948-391A-8  
Sequence 8, Application US/09948391A  
Publication No. US2003002311AI  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNAse  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: NO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 8  
LENGTH: 105  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
ribonuclease with Met at position 1 and Met24Ileu  
OTHER INFORMATION: substitution (recombinant Met(-1) RapRI Met23Ileu)  
US-09-948-391A-8  
Query Match 100.0%; Score 582; DB 9; Length 105;  
Best Local Similarity 100.0%; Pred. No. 5e-58;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MODMLTFQKKHLNTRDVCNNILSTLFLPCKKNTFIYSRPEVKAIGIISKVLT 60  
DB 1 MODMLTFQKKHLNTRDVCNNILSTLFLPCKKNTFIYSRPEVKAIGIISKVLT 60  
OY TFEFVLSDCNVTSRPCKYKLRKSTTFECVTCENQAPVHVGVC 105  
|||||

Db 61 TFEYLSDCNVTSRPCKYKLLKSKSTTFECVTCENQAPVHFVGVC 105

RESULT 2  
US-09-948-391A-9  
Sequence 9, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948, 391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079, 751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622, 613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 9  
LENGTH: 111  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
ribonuclease with (His)6 tag, Met at position 7  
OTHER INFORMATION: and Met30Leu substitution (recombinant Met(-1))  
US-09-948-391A-9

Query Match 100.0%; Score 582; DB 9; Length 111;  
Best Local Similarity 100.0%; Pred. No. 5, 3e-58;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MODLTFOKXHLNTRDVCNNILSTNLFHCKDKNTFTYSRPEPVKAICGIIASKNVLT 60  
|||||  
Db 7 MODLTFOKXHLNTRDVCNNILSTNLFHCKDKNTFTYSRPEPVKAICGIIASKNVLT 66  
|||||

QY 61 TFEYLSDCNVTSRPCKYKLLKSKSTTFECVTCENQAPVHFVGVC 105  
|||||  
Db 67 TFEYLSDCNVTSRPCKYKLLKSKSTTFECVTCENQAPVHFVGVC 111  
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RESULT 3  
US-09-948-391A-4  
Sequence 4, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948, 391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079, 751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622, 613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 104

TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
ribonuclease with Met30Leu substitution  
OTHER INFORMATION: (recombinant RapLr1 Met23Leu)  
US-09-948-391A-4

Query Match 97.9%; Score 570; DB 9; Length 104;  
Best Local Similarity 99.0%; Pred. No. 1, 1e-56;  
Matches 103; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDWLTFOKXHLNTRDVCNNILSTNLFHCKDKNTFTYSRPEPVKAICGIIASKNVLT 61  
|||||  
Db 1 QDWLTFOKXHLNTRDVCNNILSTNLFHCKDKNTFTYSRPEPVKAICGIIASKNVLT 60  
|||||

QY 62 FEFYLSDCNVTSRPCKYKLLKSKSTTFECVTCENQAPVHFVGVC 105  
|||||  
Db 61 FEFYLSDCNVTSRPCKYKLLKSKSTTFECVTCENQAPVHFVGVC 104  
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RESULT 4  
US-09-948-391A-6  
Sequence 6, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948, 391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079, 751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622, 613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 6  
LENGTH: 105  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
ribonuclease with Met at position 1 (recombinant  
Met(-1) RapLr1)  
US-09-948-391A-6

Query Match 97.1%; Score 565; DB 9; Length 105;  
Best Local Similarity 97.1%; Pred. No. 4, 1e-56;  
Matches 102; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MODLTFOKXHLNTRDVCNNILSTNLFHCKDKNTFTYSRPEPVKAICGIIASKNVLT 60  
|||||  
Db 1 MODLTFOKXHLNTRDVCNNILSTNLFHCKDKNTFTYSRPEPVKAICGIIASKNVLT 60  
|||||

QY 61 TFEYLSDCNVTSRPCKYKLLKSKSTTFECVTCENQAPVHFVGVC 105  
|||||  
Db 61 TFEYLSDCNVTSRPCKYKLLKSKSTTFECVTCENQAPVHFVGVC 105  
|||||

RESULT 5  
US-09-948-391A-13  
Sequence 13, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.

```

: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor RNase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: PRIOR FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 13
: LENGTH: 105
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
: OTHER INFORMATION: ribonuclease with Met at position 1 and Glu2ser
: OTHER INFORMATION: substitution (recombinant Met(-1) RapLr1 Q15)
US-09-948-391A-13

```

```

Query Match          96.2%: Score 560; DB 9; Length 105;
Best Local Similarity 96.2%: Pred. No. 1.5e-55;
Matches 101; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

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OY 1 MODLFFOKKHLNTRDVCNNILSTNLFHCKDKNTFYISRPVKAICKGIASKNVLT 60
DB 1 MSMLFFOKKHLNTRDVCNNIMSTNLFHCKDKNTFYISRPVKAICKGIASKNVLT 60
OY 61 TFEFLSDCNVTSRCKYKLTSTFTFCVCENQAPVHFGVGHG 105
DB 61 TFEFLSDCNVTSRCKYKLTSTFTFCVCENQAPVHFGVGHG 105

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RESULT 6
US-09-948-391A-28
: Sequence 28, Application US/09948391A
: Publication No. US20030027311A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor RNase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: PRIOR FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 28
: LENGTH: 127
: TYPE: PRT
: ORGANISM: Rana pipiens
: FEATURE:
: OTHER INFORMATION: Rana pipiens ribonuclease (RapLr1) Clone 5a1b cDNA
: OTHER INFORMATION: insert
US-09-948-391A-28

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Query Match          96.2%: Score 560; DB 9; Length 127;
Best Local Similarity 97.1%: Pred. No. 1.8e-55;
Matches 101; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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OY 2 QDWLFFOKKHLNTRDVCNNILSTNLFHCKDKNTFYISRPVKAICKGIASKNVLT 61
DB 24 QDWLFFOKKHLNTRDVCNNIMSTNLFHCKDKNTFYISRPVKAICKGIASKNVLT 83
OY 62 FEFYLSDCNVTSRCKYKLTSTFTFCVCENQAPVHFGVGHG 105
DB 84 FEFYLSDCNVTSRCKYKLTSTFTFCVCENQAPVHFGVGHG 127

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RESULT 7
US-09-948-391A-11
: Sequence 11, Application US/09948391A
: Publication No. US20030027311A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor RNase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: PRIOR FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 11
: LENGTH: 104
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
: OTHER INFORMATION: ribonuclease with Glu2ser substitution
US-09-948-391A-11

```

```

Query Match          95.4%: Score 555; DB 9; Length 104;
Best Local Similarity 97.1%: Pred. No. 5.3e-55;
Matches 100; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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OY 3 DMLTFFOKKHLNTRDVCNNILSTNLFHCKDKNTFYISRPVKAICKGIASKNVLT 62
DB 2 DMLTFFOKKHLNTRDVCNNIMSTNLFHCKDKNTFYISRPVKAICKGIASKNVLT 61
OY 63 EFLYSDCNVTSRCKYKLTSTFTFCVCENQAPVHFGVGHG 105
DB 62 EFLYSDCNVTSRCKYKLTSTFTFCVCENQAPVHFGVGHG 104

```

```

RESULT 8
US-09-948-391A-2
: Sequence 2, Application US/09948391A
: Publication No. US20030027311A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor RNase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: PRIOR FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613

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PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 104  
TYPE: PRT  
ORGANISM: Rana pipiens  
FEATURE:  
OTHER INFORMATION: ribonuclease (RanRL1)  
US-09-948-391A-2

Query Match 94.7%; Score 551; DB 9; Length 104;  
Best Local Similarity 96.2%; Pred. No. 1.5e-54;  
Matches 100; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 QDWLTQKHLNTRVDVDCNNILSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 61  
DB 1 QDWLTQKHLNTRVDVDCNNILSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 60  
QY 62 EFEYLSDCNVTSRPCKYKLLKSTTFCVTCENQAPVHFVGVC 105  
DB 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104

RESULT 9  
US-10-153-882-2  
Sequence 2, Application US/10153882  
Publication No. US2003009629A1  
GENERAL INFORMATION:  
APPLICANT: GOLDENBERG, David M.  
APPLICANT: HANSEN, Hans  
APPLICANT: LEUNG, Shui-on  
TITLE OF INVENTION: RECOMBINANT ONCONASE, AND CHEMICAL CONJUGATES AND  
FILE REFERENCE: 018733/0913  
CURRENT APPLICATION NUMBER: US/10/153,882  
CURRENT FILING DATE: 2002-05-24  
PRIOR APPLICATION NUMBER: US/09/265,901  
PRIOR FILING DATE: 1999-03-11  
PRIOR APPLICATION NUMBER: US 60/077,557  
PRIOR FILING DATE: 1998-03-11  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 105  
TYPE: PRT  
ORGANISM: Rana pipiens  
US-10-153-882-2

Query Match 93.3%; Score 543; DB 9; Length 105;  
Best Local Similarity 93.3%; Pred. No. 1.2e-53;  
Matches 98; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MODWTFQKHLNTRVDVDCNNILSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 60  
DB 1 MODWTFQKHLNTRVDVDCNNILSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 60  
QY 61 TFEFLSDCNVTSRCPCKYKLLKSTTFCVTCENQAPVHFVGVC 105  
DB 61 TFEFLSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVC 105

RESULT 10  
US-09-986-119-1  
Sequence 1, Application US/09986119  
Publication No. US20020187153A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: Goldenberg, David M.  
TITLE OF INVENTION: Immunotoxins Directed Against Malignant  
Cells  
NUMBER OF SEQUENCES: 3

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/986,119  
FILING DATE: 07-NOV-2002  
CLASSIFICATION: <Unknown>

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/071,672  
FILING DATE: 01-MAY-1998  
APPLICATION NUMBER: US 60/046,895  
FILING DATE: 02-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 015280-325100S

## TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300

## INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:  
LENGTH: 104 amino acids  
TYPE: amino acid  
STRANDEDNESS: <Unknown>  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:

NAME/KEY: Modified-site  
LOCATION: 1

OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa = Glu or pyroglutamic acid"

NAME/KEY: protein  
LOCATION: 1..104

OTHER INFORMATION: /note= "Rnase A derived from  
Rana pipiens, "onc protein"

SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-986-119-1

Query Match 91.6%; Score 533; DB 9; Length 104;  
Best Local Similarity 93.2%; Pred. No. 1.6e-52;  
Matches 96; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 3 DMLTFQKHLNTRVDVDCNNILSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 62  
DB 2 DMLTFQKHLNTRVDVDCNNILSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 61  
QY 63 EFEYLSDCNVTSRPCKYKLLKSTTFCVTCENQAPVHFVGVC 105  
DB 62 EFEYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104

RESULT 11  
US-09-986-119-3  
Sequence 3, Application US/09986119  
Publication No. US20020187153A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: Goldenberg, David M.  
TITLE OF INVENTION: Immunotoxins Directed Against Malignant  
Cells  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:

```

: ADDRESSEE: Townsend and Townsend and Crew LLP
: STREET: Two Embarcadero Center, Eighth Floor
: CITY: San Francisco
: STATE: California
: COUNTRY: USA
: ZIP: 94111-3834
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/986,119
: FILING DATE: 07-May-2002/0187153A1-2001
: CLASSIFICATION: <Unknown>
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/09/071,672
: FILING DATE: 01-May-1998
: APPLICATION NUMBER: US 60/046,895
: FILING DATE: 02-May-1997
:
: ATTORNEY/AGENT INFORMATION:
: NAME: Weber, Ellen Lauver
: REGISTRATION NUMBER: 32,762
: REFERENCE/DOCKET NUMBER: 015280-32510US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 576-0200
: TELEFAX: (415) 576-0300
:
: INFORMATION FOR SEQ ID NO: 3:
:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 83 amino acids
: TYPE: amino acid
: STRANDEDNESS: <Unknown>
: TOPOLOGY: linear
:
: MOLECULE TYPE: protein
:
: FEATURE:
: NAME/KEY: Protein
: LOCATION: 1..83
: OTHER INFORMATION: /note="onc protein", positions 16-98
: of SEQ ID NO:1"
:
: SEQUENCE DESCRIPTION: SEQ ID NO: 3:
:
: US-09-986-119-3
:
: Query Match
: Best Local Similarity 73.4%; Score 427; DB 9; Length 83;
: Matches 78; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
:
: Oy 17 DVDGNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLTFFEFYSDCNVTSRRC 76
: Db 1 DVDGDIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLTSEFYLSDCNVTSRRC 60
:
: Oy 77 KYKKKSTFTFCVCEADAPVHF 99
: Db 61 KYKKKSTNKFVCEADAPVHF 83
:
: RESULT 12
: US-09-948-391A-21
: Sequence 21, Application US/09948391A
: Publication No. US20030027311A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: TITLE OF INVENTION: Department of Health and Human Services
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: CURRENT FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26

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: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: Patentin Ver. 2.0
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: SEQ ID NO 21
: LENGTH: 111
:
: TYPE: PRT
: ORGANISM: Artificial Sequence
:
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence:Rana
: OTHER INFORMATION: catesbeiana ribonuclease with Met at position 1,
: OTHER INFORMATION: Met23leu and Met58leu substitutions (recombinant
: OTHER INFORMATION: Met(-1) RacOR1 Met22leu Met57leu)
:
: US-09-948-391A-21
:
: Query Match
: Best Local Similarity 46.8%; Score 272.5; DB 9; Length 111;
: Matches 55; Conservative 14; Mismatches 34; Indels 9; Gaps 4;
:
: Oy 1 MODLTFQKKHLNTRDVCNNILSTNLF---HCKDKNTFIYSRPEPVKAICKGIASK 56
: Db 1 MGNMATTQKKHIINT-PICTNFIIDNNIYIVGGCKKRVNFTIISATTVAICTGYI-NL 58
:
: Oy 57 NVLTFFEFYLSDC---NVTSRPCKYKLLKSTFTFCVCEADAPVHFVGVHC 105
: Db 59 NVLSTTRPQNTCTRTSITPRCPYSSRTETNIVICVACENQPVHFGAGIGRC 110
:
: RESULT 13
: US-09-948-391A-22
: Sequence 22, Application US/09948391A
: Publication No. US20030027311A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: TITLE OF INVENTION: Department of Health and Human Services
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: CURRENT FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: NO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: Patentin Ver. 2.0
:
: SEQ ID NO 22
: LENGTH: 117
:
: TYPE: PRT
: ORGANISM: Artificial Sequence
:
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence:Rana
: OTHER INFORMATION: catesbeiana ribonuclease with (His)6 tag, Met at
: OTHER INFORMATION: position 7, Met23leu and Met58leu substitutions
: OTHER INFORMATION: (recombinant Met(-1) RacOR1 Met22leu Met57leu)
:
: US-09-948-391A-22
:
: Query Match
: Best Local Similarity 46.8%; Score 272.5; DB 9; Length 117;
: Matches 55; Conservative 14; Mismatches 34; Indels 9; Gaps 4;
:
: Oy 1 MODLTFQKKHLNTRDVCNNILSTNLF---HCKDKNTFIYSRPEPVKAICKGIASK 56
: Db 7 MGNMATTQKKHIINT-PICTNFIIDNNIYIVGGCKKRVNFTIISATTVAICTGYI-NL 64
:
: Oy 57 NVLTFFEFYLSDC---NVTSRPCKYKLLKSTFTFCVCEADAPVHFVGVHC 105
: Db 65 NVLSTTRPQNTCTRTSITPRCPYSSRTETNIVICVACENQPVHFGAGIGRC 116

```

## RESULT 14

US-09-948-391A-15

Sequence 15, Application US/09948391A

Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the

Department of Health and Human Services

TITLE OF INVENTION: Recombinant Anti-Tumor RNase

FILE REFERENCE: 015280-343110US

CURRENT APPLICATION NUMBER: US/09/948,391A

CURRENT FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: US 60/079,751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622,613

PRIOR FILING DATE: 2000-08-17

NUMBER OF SEQ ID NOS: 43

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 15

LENGTH: 110

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Rana

OTHER INFORMATION: catesbeiana oocyte ribonuclease (RACOR1) synthetic

US-09-948-391A-15

Query Match

Best Local Similarity 47.8%; Score 266.5; DB 9; Length 110;

Matches 53; Conservative 15; Mismatches 34; Indels 9; Gaps 4;

OTHER INFORMATION: Description of Artificial Sequence: Rana  
OTHER INFORMATION: catesbeiana ribonuclease with Met at position 1  
OTHER INFORMATION: and Gln2ser substitution (Met(-1) RacOR1 Q15)  
US-09-948-391A-26

Query Match

Best Local Similarity 47.8%; Score 266.5; DB 9; Length 111;

Matches 53; Conservative 15; Mismatches 35; Indels 9; Gaps 4;

Search completed: June 25, 2003, 15:42:14  
Job time: 16.686 secs